

## Deutsche Akkreditierungsstelle

### Annex to the Accreditation Certificate D-PL-20712-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 25.01.2023

**Date of issue:** 19.12.2023

Holder of accreditation certificate:

**Celanese Services Germany GmbH  
Am Unisys-Park 1, 65843 Sulzbach**

with its testing laboratory

**Frankfurt Processing, Testing & Analytical Labs  
Industriepark Höchst Gebäude G811 / G812 / C657  
Brüningstraße 50, 65926 Frankfurt**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

**selected mechanically-technological, rheological, thermal and physical analysis at plastic moldings, -billets and -construction units**

*This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.*

Abbreviations used: see last page

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**Within the accreditation areas marked with \*, the testing laboratory is permitted to use the standardised test methods or equivalent test methods with different editions listed here without the need for prior information and approval by the DAkkS. The testing laboratory has an up-to-date list of all test methods in the flexible accreditation area.**

**1 Mechanically-technological analysis \***

|                             |  |
|-----------------------------|--|
| DIN EN ISO 178<br>2019-08   | Plastics - Determination of flexural properties  |
| DIN EN ISO 179-1<br>2010-11 | Plastics - Determination of Charpy impact properties – Part 1: Non-instrumented impact test                  |
| DIN EN ISO 527-1<br>2019-12 | Plastics - Determination of tensile properties – Part 1: General principles                                  |
| DIN EN ISO 527-2<br>2012-06 | Plastics - Determination of tensile properties – Part 2: Test conditions for moulding and extrusion plastics |

**2 Rheological analysis \***

|                              |  |
|------------------------------|--|
| DIN EN ISO 1133-1<br>2012-03 | Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics – Part 1: Standard method  |
| DIN EN ISO 1133-2<br>2012-03 | Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics – Part 2: Method for materials sensitive to time-temperature history and/or moisture |
| DIN EN ISO 1628-5<br>2015-05 | Plastics - Determination of the viscosity of polymers in dilute solution using capillary viscometers – Part 5: Thermoplastic polyester (TP) homopolymers and copolymers                          |

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**3 Thermal tests \***

|                               |   |
|-------------------------------|---|
| DIN EN ISO 11357-1<br>2017-02 | Plastics - Differential scanning calorimetry (DSC) – Part 1: General principles   |
| DIN EN ISO 11357-2<br>2020-08 | Plastics - Differential scanning calorimetry (DSC) – Part 2: Determination of glass transition temperature and step height            |
| DIN EN ISO 11357-3<br>2018-07 | Plastics - Differential scanning calorimetry (DSC) – Part 3: Determination of temperature and enthalpy of melting and crystallization |

**4 Physical tests \***

|                              |  |
|------------------------------|--|
| DIN EN ISO 1183-1<br>2019-09 | Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method  |
| IEC 60093<br>1980-01         | Methods of test for volume resistivity and surface resistivity of solid electrical insulating materials  |
| DIN EN 62631-3-1<br>2017-01  | Dielectric and resistive properties of solid insulating materials – Part 3-1: Determination of resistive properties (DC methods) - Volume resistance and volume resistivity - General method |
| DIN EN 62631-3-2<br>2016-10  | Dielectric and resistive properties of solid insulating materials – Part 3-2: Determination of resistive properties (DC Methods) - Surface resistance and surface resistivity                |
| E DIN EN 6042<br>1996-04     | Aerospace series - Organic compounds - Test method; analysis by infrared spectroscopy<br><i>(withdrawn)</i>  |
| DIN 51451<br>2020-02         | Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principles  |
| ISO 3451-1<br>2019-02        | Plastics - Determination of ash - Part 1: General methods  |

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|                            |   |
|----------------------------|---|
| DIN 75201<br>2011-11       | Determination of the fogging characteristics of trim materials in the interior of automobiles |
| DIN EN ISO 3915<br>1999-10 | Plastics - Measurement of resistivity of conductive plastics                                  |

**5 Testing according to in-house methods or specifications**

|                                |  |
|--------------------------------|--|
| CE 06-01-2200-00-01<br>2021-07 | Determination of the mass fraction of acesulfame K by HPLC analysis                                      |
| CE 06-01-2200-00-09<br>2021-06 | Determination of the loss on drying of acesulfame K using a moisture analyzer balance                    |
| CE AA070<br>2021-02            | Investigation of the morphology of polymers and polymer blends as well as their main molecular structure |

**Abbreviations used:**

|     |   |
|-----|---|
| DIN | Deutsches Institut für Normung e. V.              |
| EN  | European Standard                                 |
| IEC | International Electrotechnical Commission         |
| ISO | International Organization for Standardization    |
| CE  | In-house method of Celanese Services Germany GmbH |